

MICROMETER IN HOUSE VERIFICATION PROCEDURE #36

May 13, 2002

Equipment Checked: **Caliper**

Purpose: This method provides instructions for accurate readings of the caliper so that when using the caliper for verification of other laboratory equipment the readings are accurate.

Inspection Equipment Required:

1. Block Set

Tolerance: Check the tolerance of each micrometer with a Mitutoyo block set to determine the confidence probability of not less than 95%.
(Certificate of Inspection of block set is enclosed).

Procedure: The micrometer is measured against a set of known blocks and their values (0.0625, 0.100, 0.125, 0.200, 0.250, 0.300, 0.500, 1.000, 2.000). These measured values are subtracted from the original value, then divided by the original value and multiplied by 100 to get a % difference.

EQUIPMENT CALIBRATION RECORD

Calibration Procedure No. 36 Micrometer, 6" Electronic, digital, Chicago brand

Date:	Calibrated by:
Previous Calibration Date:	Next Due:
ID No.:	Range of Calibration: 0.0625" to 2.0000"
Frequency: 24 months	
Action Recommended: Repair _____ Replace _____ None _____ Other _____	
Calibration Equipment	Serial Number
Block Set	
Comments:	

Calibrated Block Size	Actual Micrometer Reading	% Difference
0.0625		%
0.1000		%
0.1250		%
0.2000		%
0.2500		%
0.3000		%
0.5000		%
1.0000		%